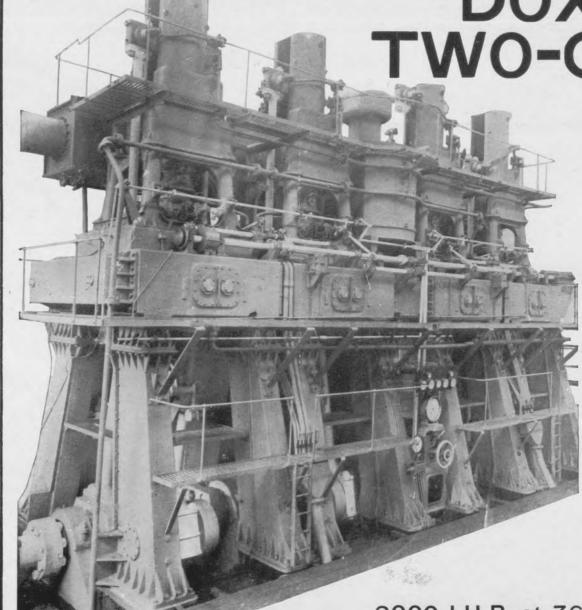


SUN SHIP DIESEL

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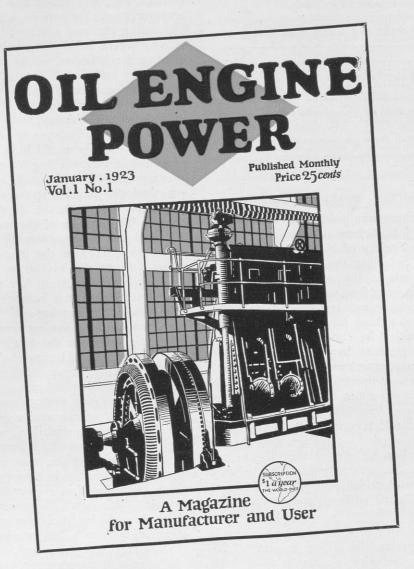
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To make known to power users every-

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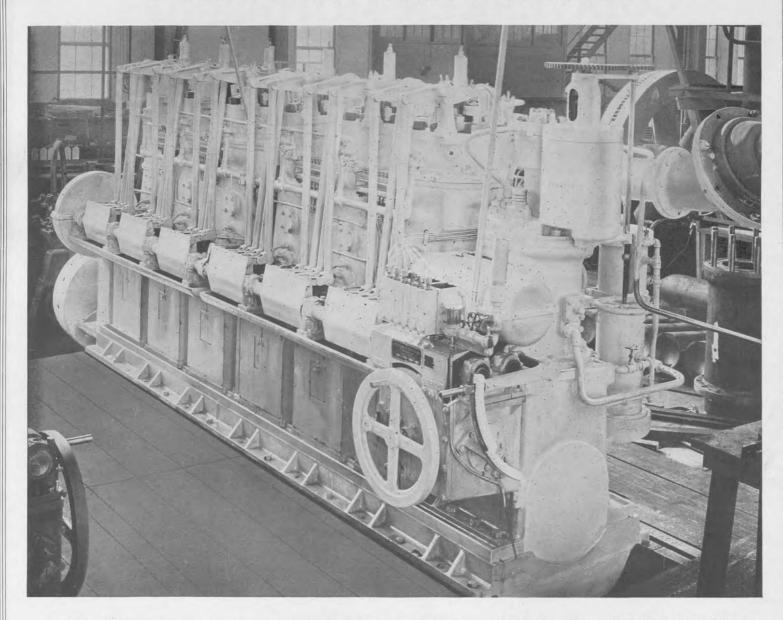
MILLER FREEMAN, Publisher

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NEW YORK

McINTOSH & SEYMOUR CORPORATION DIESEL MARINE ENGINES



The illustration on the front cover of this magazine shows the Motorship "TEXACO 147" of the Texas Steamship Company of New York City. The "TEXACO 147" is 156 feet long, 24 feet beam, and 11 feet 4 inches full load draft, and has a deadweight capacity of one thousand tons.

This is a single-screw vessel, and is equipped with one of our 390 indicated horsepower Diesel marine engines illustrated above, which gives her a full-load speed at sea of about nine knots.

This vessel is a very good illustration of what can be done with a vessel of moderate capacity and with moderate draft so as to be suitable for use in a river or canal as well as for service at sea. It has been found that with this vessel, which encounters ice at times in winter, the prompt maneuvering of the Diesel engine facilitates greatly the handling of the vessel under these conditions.

Write for Bulletin No. 66, "Achievements in Motorships."

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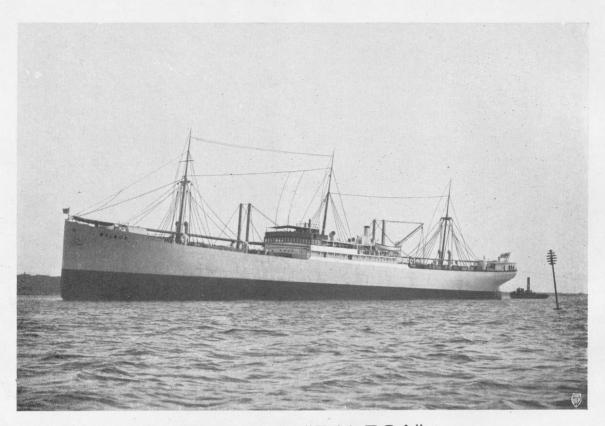
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No. 5

THE M.S. "BALBOA"

9.300 tons d. w.; Owners: The Johnson Line, Stockholm

BUILT AND DIESEL-ENGINED BY THE GÖTAVERKEN

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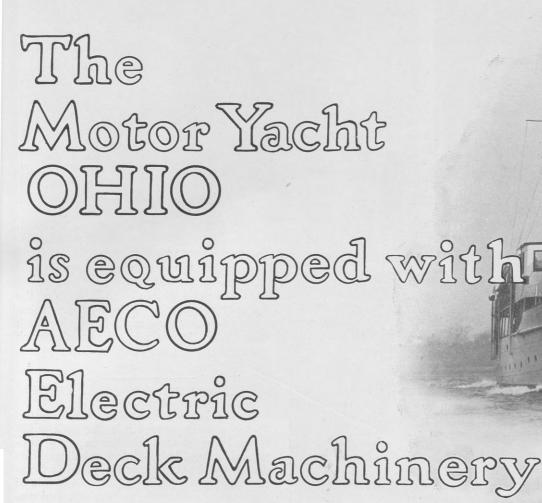
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Choose AECO and forget about it.

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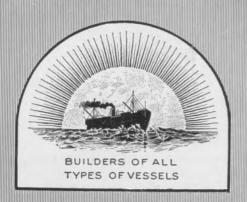
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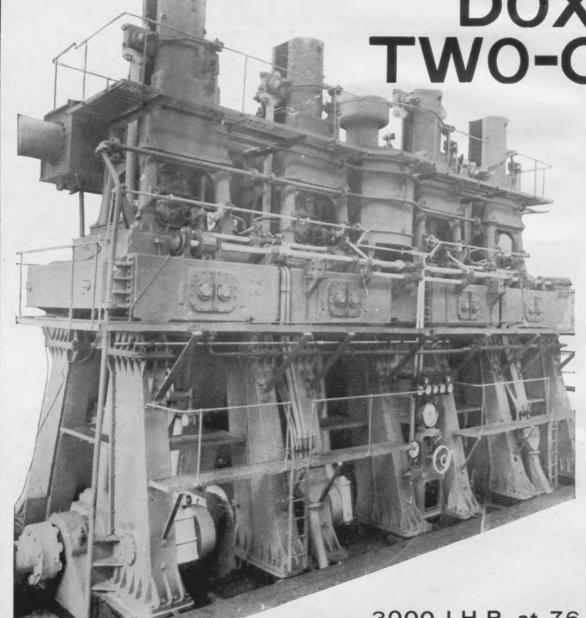
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DOXFOF W W Ch



3000 I.H.P. at 76 R.P.M. ON SINGLE SCREW

DOXFORD A



MOTORSHIP DOMINION MILLER

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MAIN OF CHEST

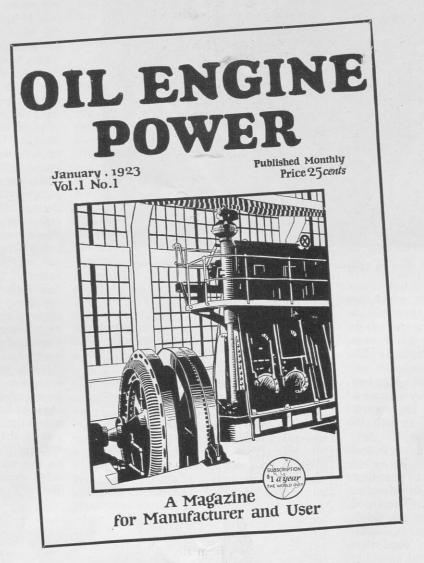
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A Companion Journal to MOTORSHIP

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Used on land or at sea the Oil Engine achieves striking economies destined to revolutionize both shipping and industry.

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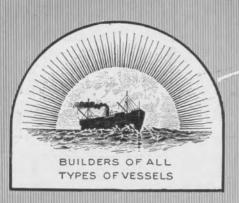
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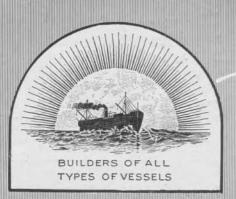


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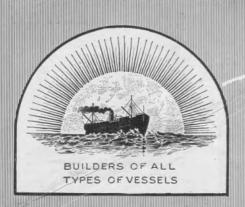


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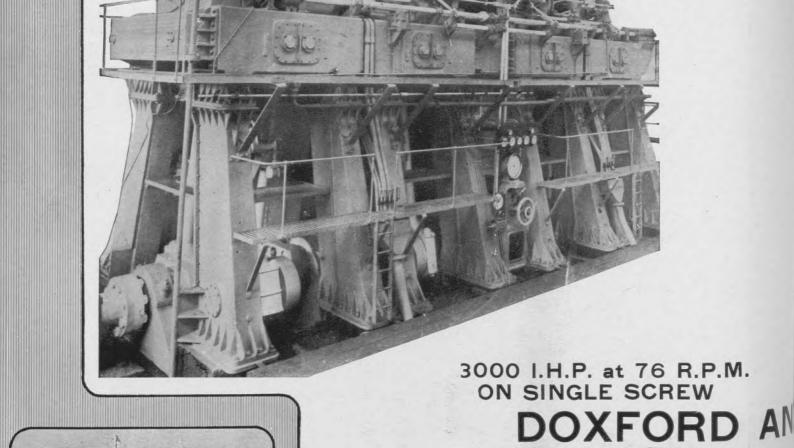
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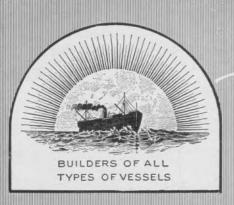


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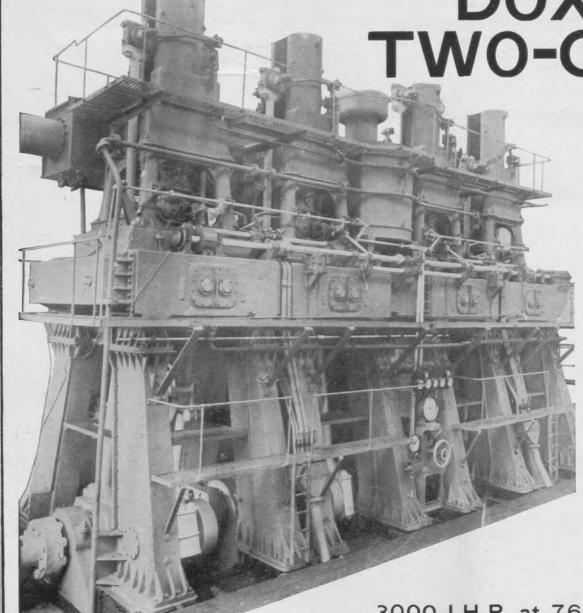
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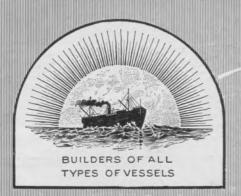


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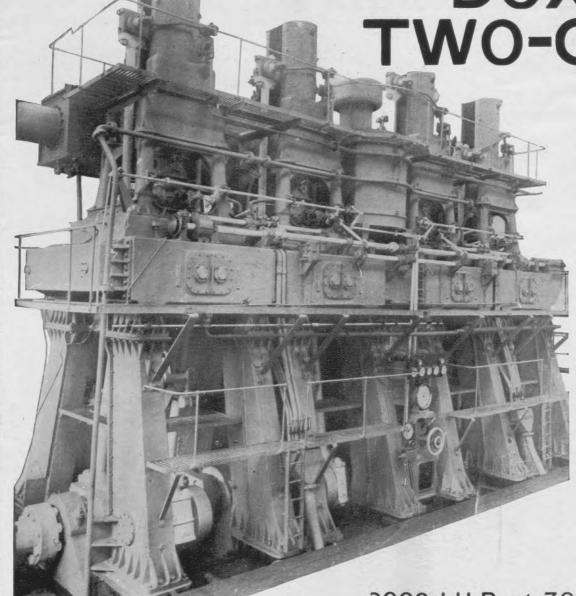
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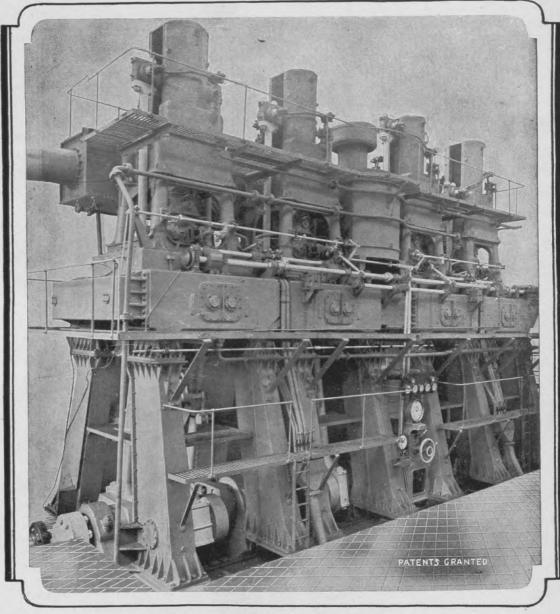
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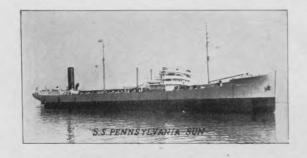
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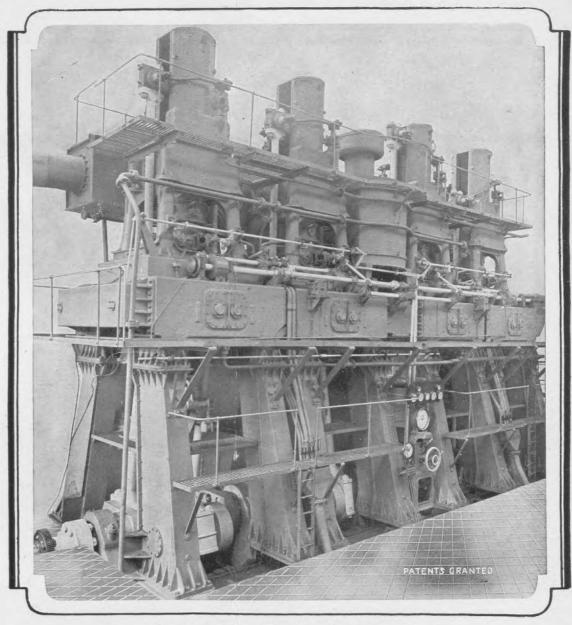
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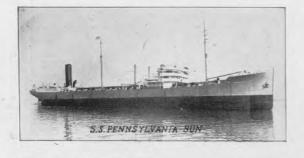
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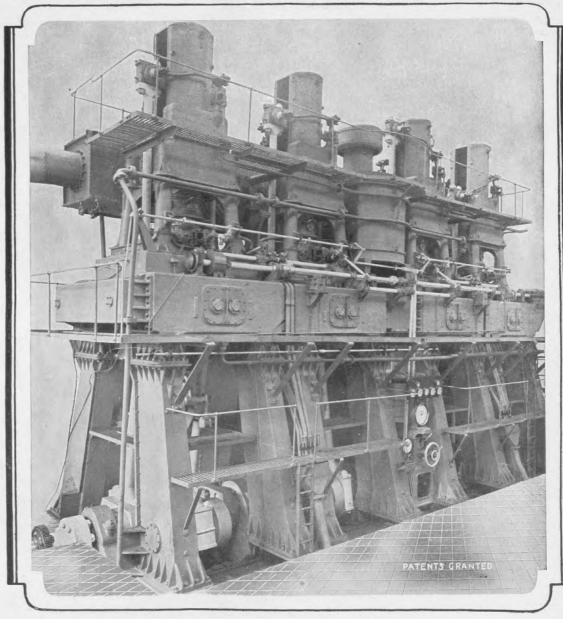


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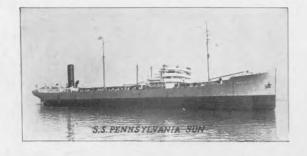
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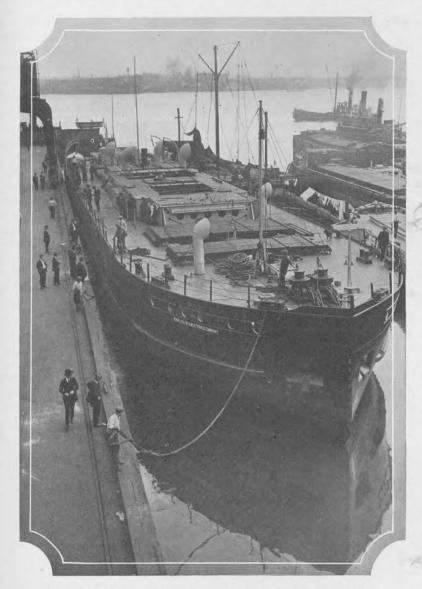
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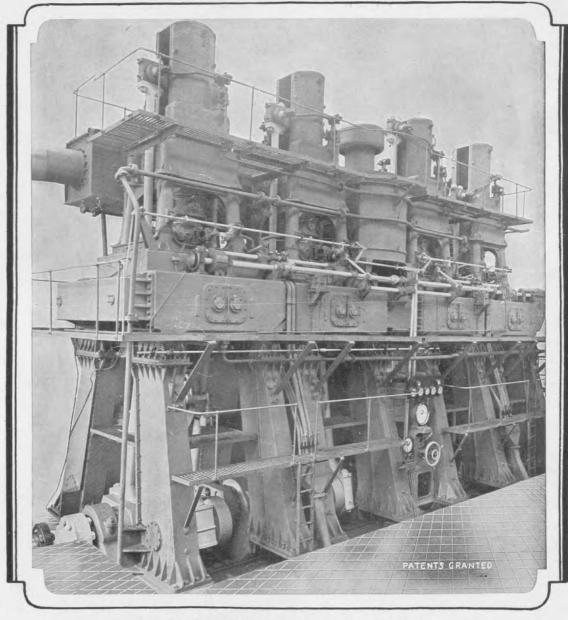
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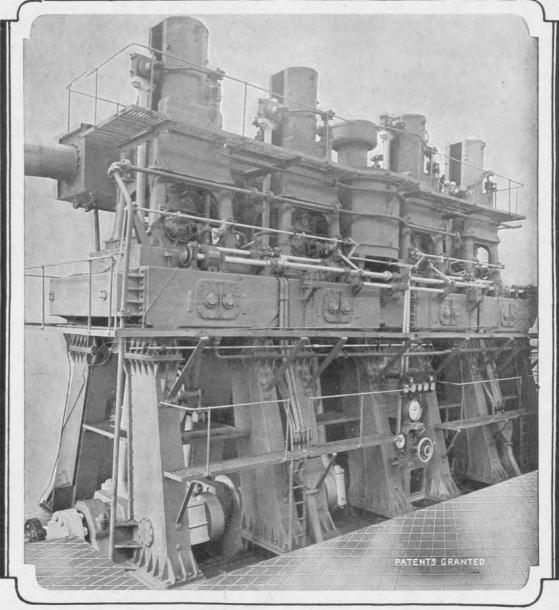
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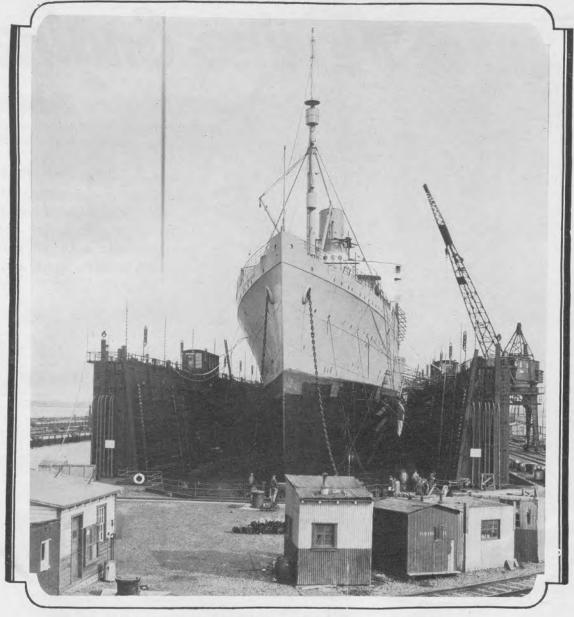
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"MOTORSHIP" for December, 1923. Vol. 8. No. 12. A monthly journal published by Motorship, at 27 Pearl St., New York City. Subscription three dollars the year domestic; three dollars, fifty cents foreign. Entered as second-class matter at the Post Office at New York, N. Y., U. S. A., July, 1918, under Act of March 3rd, 1879. Office at New York City.

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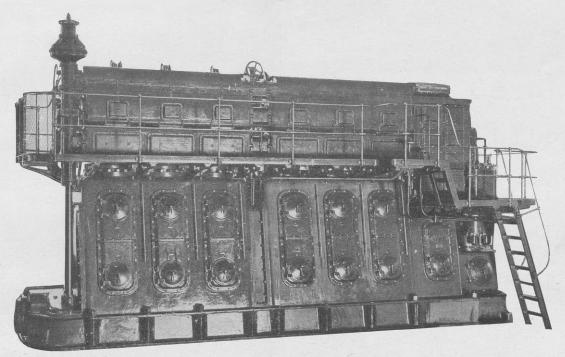
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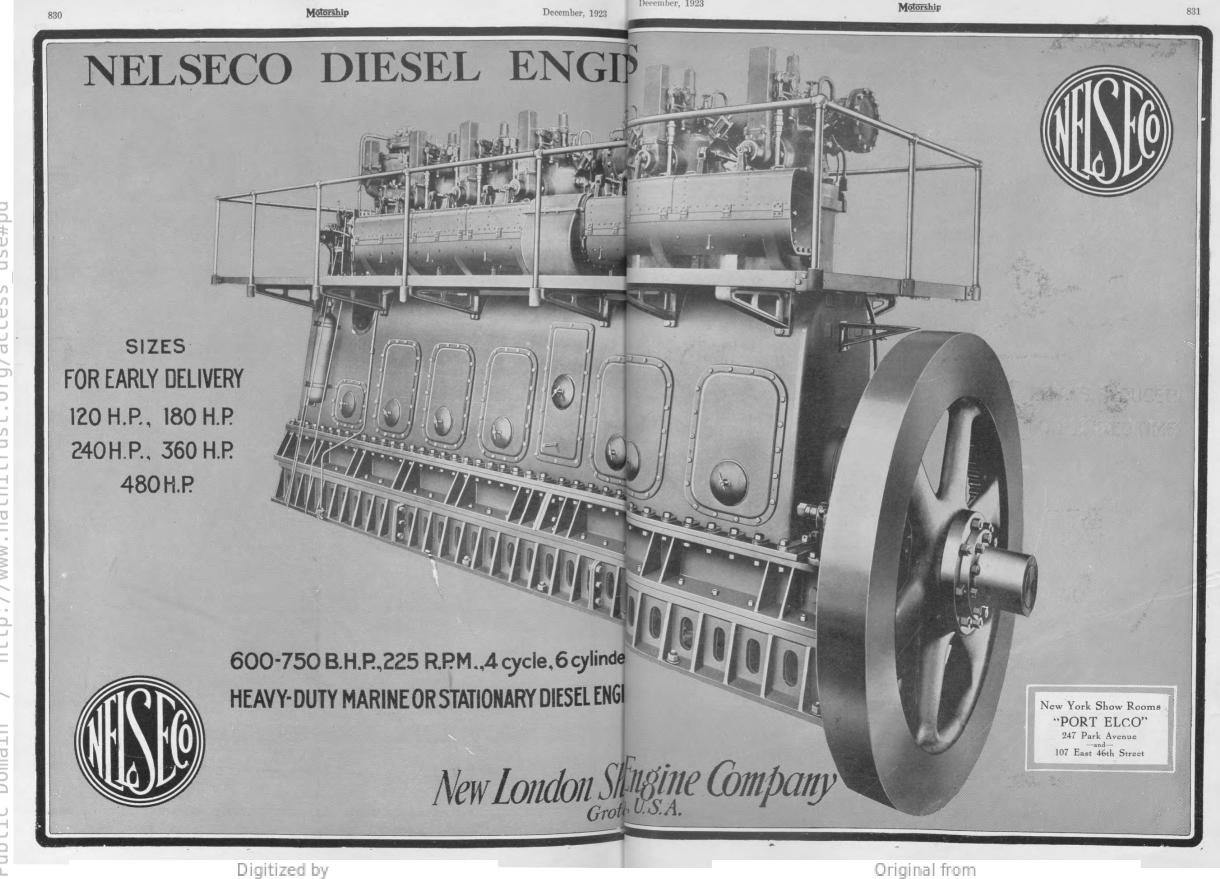
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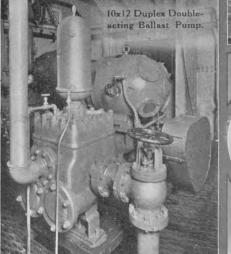
WORTHINGTON MOTORSHIP AUXILIARIES

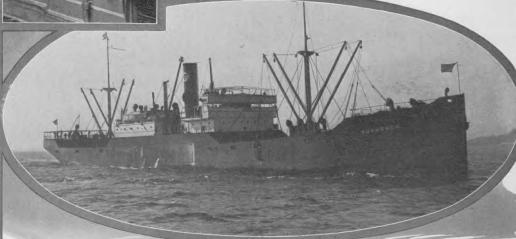
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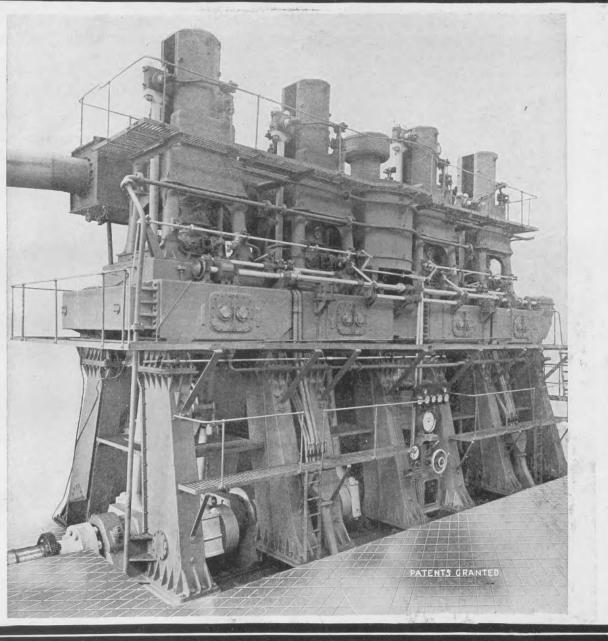
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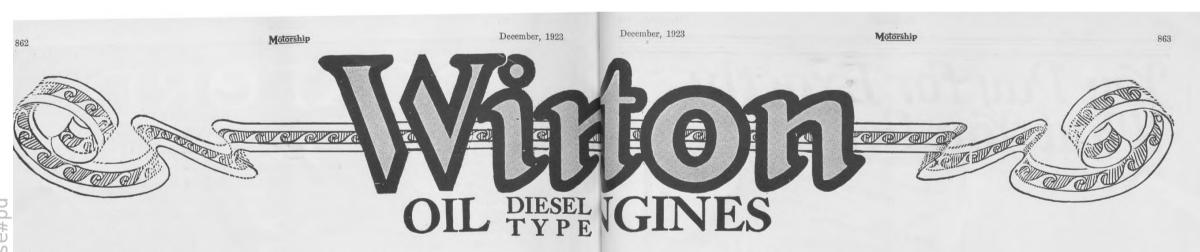


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Speed 15 knots per hour these ships are operated at a fuel cost of 16 cents per mile and are used by the War Department in Sound, Bay and River work in various parts of the country.

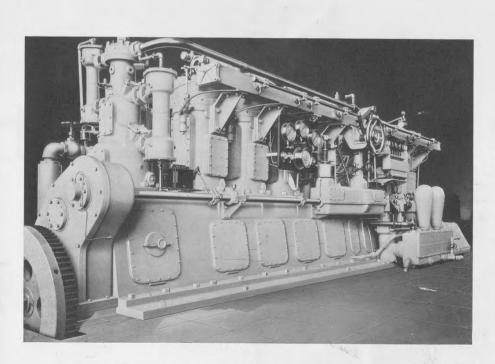
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One of the Winton Diesel Engines used in the War Department Vessels

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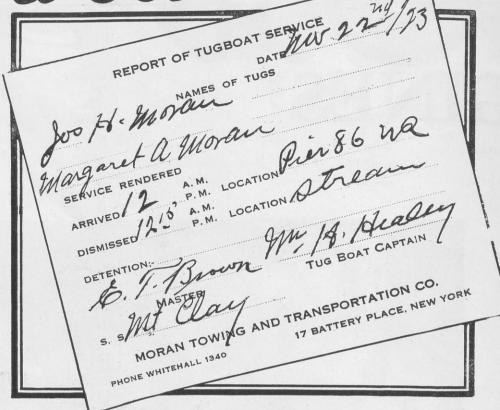
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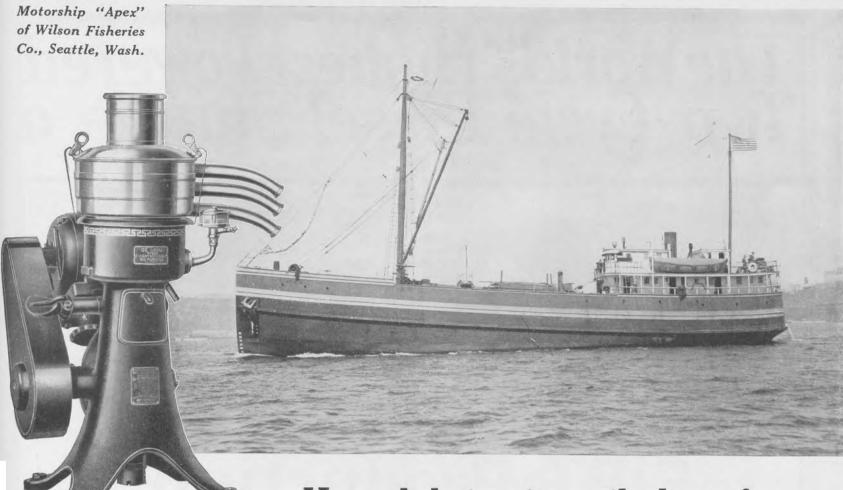
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"The purifier is connected up to the oiling system in such a way that it is continuously cleaning the oil at a rate of 7 to 10 gallons per hour, eliminating all dirt practically as soon as it is formed; and should a water leak suddenly occur, which ordinarily would not be detected until a bad emulsion of oil and water is formed, the purifier will commence discharging water out of the system automatically, safeguarding the propelling machinery at all times."

—Pacific Fisherman.

Keep lubricating oil clean for economical Diesel operation

Most operators of large motorships have long since become converted to the practice of keeping their lubricating oil clean with the De Laval Oil Purifier. Now owners of smaller vessels are also seeing the wisdom of this policy. The paragraphs at the left, which are reprinted from a recent issue of *Pacific Fisherman*, tell what one De Laval Purifier is doing on a comparatively small motorship.

De Laval Oil Purifiers protect Diesels—and turbines, too—against trouble and wear resulting from the use of dirty lubricating oil. At the same time, they greatly reduce lubricating cost by making it possible to keep oil in service until it is lost by decomposition or leakage. No oil need ever be removed from the system.

The De Laval Oil Purifier is totally unlike any other purifying device. It does its work by centrifugal force in so positive a manner that moisture and the most minute solid impurities are instantaneously removed from the oil. The operation of the Purifier is not affected by the motion of the ship while at sea.

Let us tell you how a De Laval will quickly pay for itself on your ship.

The De Laval Separator Company

New York, 165 Broadway

Chicago, 29 East Madison St.

De Laval Pacific Co., San Francisco
Chadburn's (Ship) Telegraph Company, Ltd., Cyprus Road, Bootle, Liverpool
Turbine Equipment Company, Toronto, Ontario, Canada
The Separator Company, Ltd., Stockholm, Sweden
Europe—Asia—Africa—South America

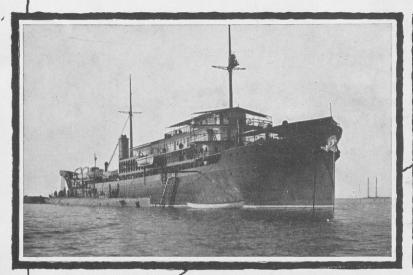
Sooner or later you will use a De Laval

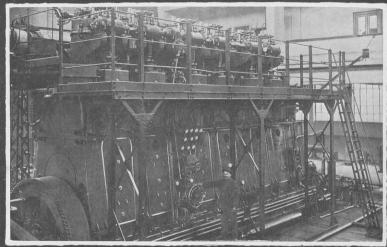
i	ing trouble, and save oil. Please send Bulletin as checked below.
-	☐ Marine turbine ☐ Marine Diesel ☐ Fuel oil
1	Name
1	Company
1	Address

We would like to know how we can make our

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The World's Highest Powered Two-Cycle Diesel Ship is a





FIRT Production

TWO six-cylinder FIAT Diesel Engines of 4,600 shaft h. p. aggregate were Installed in the Submarine mother ship CEARA (Brazilian Navy) in 1917. To-day she remains the highest two-cycle powered Motorship afloat

Ten Large Merchant Ships are also Powered with FIAT Two-cycle Diesel Engines

STABILIMENTO GRANDI MOTORI

FORMERLY THE FIAT-JAN GIORGIO

OIL ENGINE DEPARTMENT

20 VIA CUNEO

TELEGRAPHIC ADDRESS

TELEGRAPHIC ADDRESS MOTORFIAT, TORINO, ITALY

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The Tugboat "Roland," owned by the Oakland Launch & Tugboat Company.

Powered with a 250 H.P. 4-cylinder Atlas-Imperial full Diesel mechanical injection engine.

The Oakland Launch & Tugboat Company have Atlas-Imperial Diesel Engines installed in

The Oakland Launch & Tugboat Company have Atlas-Imperial Diesel Engines installed in the following tugs.

"Colon"	55	H.P.	installed	in	May,	1921	
"Panama"	125	66	. "	66	Dec.	1921	
"Pirate"	90	66	66	66	Apr.	1923	
"Roland"	250	"	"	66	May,	1923	

The following are a few of the firms who have also placed repeat orders:

Hunt Hatch Company, Oakland, Calif.,—5 engines
Rhodes-Jamieson & Company, Oakland, Calif.,—3 engines
San Pedro Transportation Company, San Pedro, Calif.,—4 engines
Peter Wold, Seattle, Washington,—2 engines
San Juan Fish Company, Seattle, Washington,—3 engines
Shaver Transportation Co., Portland, Oregon,—2 engines
Tacoma Tug & Barge Company, Tacoma, Wash.,—2 engines
Western California Fish Co., San Francisco, Calif.,—2 engines
San Francisco International Fish Co., San Francisco, Calif.,—2 engines
Capt. A. E. Anderson, Oakland, Calif.,—2 engines
F. E. Drane, Bandon, Oregon,—4 engines

ATLAS-IMPERIAL ENGINE COMPANY

MAIN OFFICE AND WORKS Ft. 19th Ave., Oakland, Calif. FACTORY No. 2 163 Main St. San Francisco BRANCH OFFICES

115 Broad St. 908 S
New York City Portla

908 Spalding Bldg. Portland, Oregon

SALES REPRESENTATIVES

SEATTLE, WASHINGTON
Atlas Gas Engine Agency

901 Western Ave.

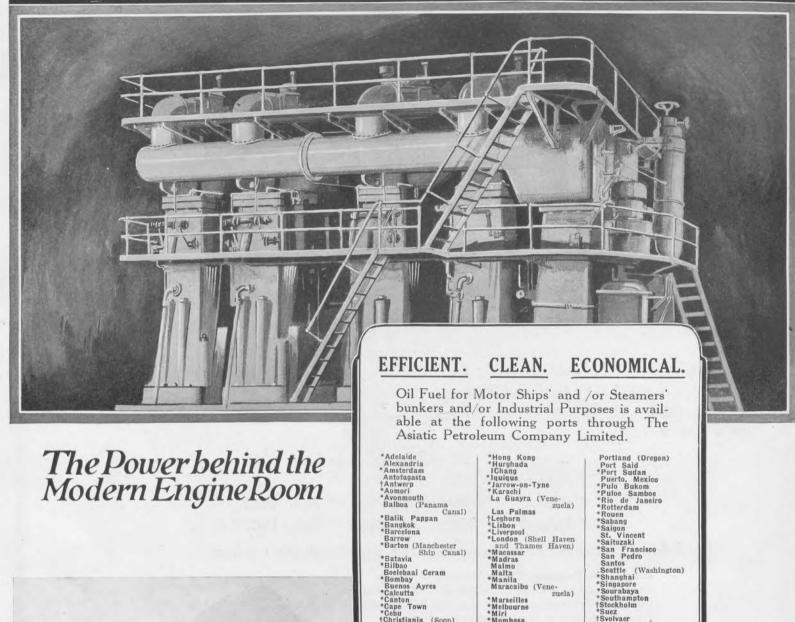
SAN DIEGO, CALIF. West Coast Gas Engine Co. SAN PEDRO, CALIF.
Garbut & Walsh
Box 212

NEW ORLEANS, LA.

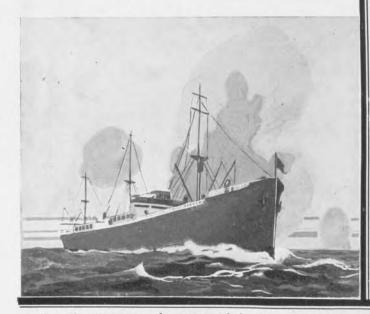
James G. Davis
1224 Music St.

HONOLULU, T. H. Honolulu Welding and Machine Works

VANCOUVER, B. C. Ferrier and Lucas 426 Howe St. HABANA, CUBA
Laza Trading Co.
Empedrado 6
SUVA, FIJI
Morris-Hedstrom, Ltd.
PAPEETE, TAHITI
Et. Davio



The Power behind the Modern Engine Room



- *Adelaide Alexandria *Amsterdam Antosaasta †Antwerp *Aomori *Avonmouth Balboa (Panama Canal)
- *Balik Pappan
 *Bangkok
 *Barcelona
 Barrow
 *Barton (Manchester
 Ship Canal)
 *Ratavia
- *Batavia *Bibbo Boelebaai Ceram *Bombay Buenos Ayres *Calcutta *Canton *Cape Town *Cape Town *Cape Town *Cape Town *Cobu †Christiania (Soon) *Colombo
- Colombo Colon (Panama Canal)
- Copenhagen Genoa Gibralter Glasgow Gothenburg Granton

- *Hong Kong
 *Hurghada
 IChang
 *Juique
 *Jarrow-on-Tyne
 *Karachi
 La Guuyra (Venezuela)

- La Guayra (Venezuela)
 Las Palmas
 †Leghorn
 *Lisbon
 *Liverpool
 *London (Shell Haven
 and Thames Haven)
 *Macassar
 *Madras
 Malmo
 Malta
 *Manila
 Maracaibo (Venezuela)
 *Marseilles
- *Marseilles *Melbourne *Miri *Mombasa Montevide

- *Penang
 *Perim
 Perrambuco
 Pernambuco
 *Piraeus
 Portishead
 *Diesel Oil as well as Fuel Oil available.
 †Gas Oil only available

New Stations are expected to be ready shortly at:

Havre San Juan (Porto Rico)

DUYERS desiring information regarding supplies of and price for Oil Fuel for use in Internal-combustion Engines or for other purposes should apply to The Asiatic Petroleum Co., Ltd., at the address below.

THE Asiatic Petroleum Company also supply Kerosene Oil for use in the smaller Internal-combustion Engines and are prepared to supply Petroleum Spirits, Lubricating Oils, Wax and Greases in all Far Eastern Markets.

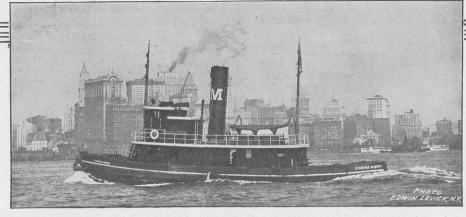
THE ASIATIC PETROLEUM CO.,LTD. Saint Helen's Court, Gt., Saint Helen's, London.



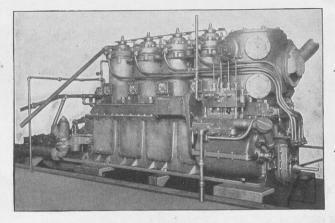
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TROUT DIESEL H-O ENGINE

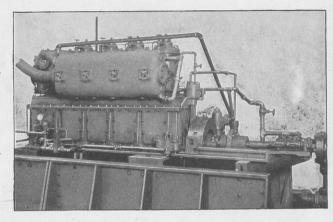
(Leissner Combustion System)



TROUT DIESEL Engined Tug—"EUGENIA M. MORAN" which has proven very successful in service



SIZES 75 to 500 B.H.P.



Starboard Side of a 100 B.H.P. TROUT DIESEL H-O ENGINE

Showing Port Side of a 100 B.H.P. TROUT DIESEL H-O ENGINE

FEATURES

4 Cycle Economy with 2 Cycle Simplicity.

Divided combustion chambers (Elwee System) absolutely prevents pre-ignition detonations.

A "Full Diesel" with no valve gear to maintain.

Scavenging cylinder divorces crank case from combustion end, making possible lubrication in constant stream under pressure to all moving parts.

Lubricating Oil consumption is less than 1% of Fuel Oil Consumption.

Easy to operate.

THE H. G. TROUT COMPANY Buffalo, N. Y.

FALK GEARED MARINE OIL ENGINES

Standard Falk Geared Marine Oil Engines are direct reversible. They consist of a pair of Falk Oil Engines connected by means of Falk-Bibby Couplings to a Falk Reduction Gear.

Standardized Engines of this type can now be furnished for any power between 1500 and 3000 BHP and any propeller speed between 70 and 100 RPM.

THE FALK CORPORATION

MILWAUKEE, WISCONSIN

Representatives

M. P. Fillingham
50 Church Street, New York City

W. O. Beyer 1007 Park Bldg. Pittsburg, Pa.

WERKSPOOR

MARINE

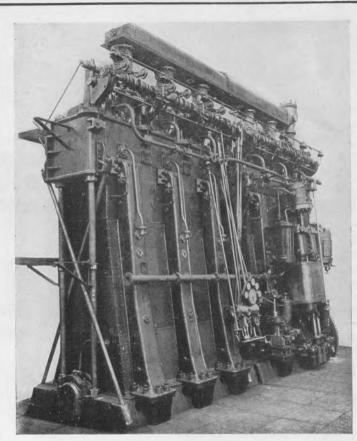
DIESEL

ENGINES

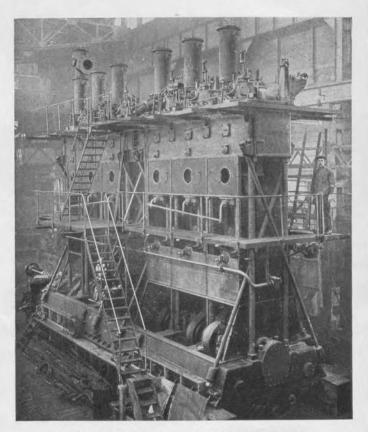


THE FIRST FULL-POWERED OCEAN-GOING MOTORSHIP WAS DRIVEN BY WERKSPOOR DIESEL OIL-ENGINES





1100 B. H P. WERKSPOOR MARINE DIESEL ENGINE



DURING CONSTRUCTION OF A 1600 B. H. P. MARINE DIESEL ENGINE

SIMPLICITY—ACCESSIBILITY—RELIABILITY

50

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MOTORSHIPS IN SERVICE AND ON ORDER

50

AMERICAN LICENSEES

NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.

NEW YORK SHIPBUILDING CORPORATION

PACIFIC DIESEL ENGINE COMPANY

REPRESENTATIVE FOR U. S. A. AND CANADA:

WILLIAM BRAAT

WOOLWORTH BUILDING NEW YORK CITY

AMSTERDAM

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Fairbanks-Morse C-O Marine Oil Engines



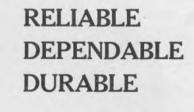
Furnish Abundant Power
For Work Boats
at a
Low Fuel Cost

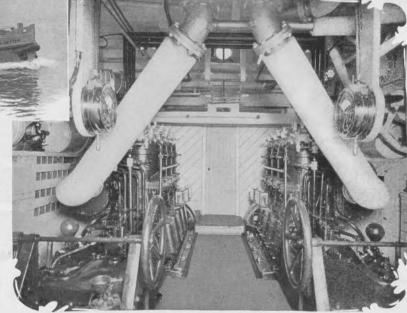
Quality predominates in the manufacture of Fairbanks-Morse "C-O" Engines from the selection of the raw materials to the final assembly of the finished product. "C-O" Engines are sold with a positive guarantee of the best there is in workmanship and design.

Operate on LOW-PRICED FUEL OILS



The tug boat "Go-Getter" showing the two 100 HP. Fairbanks-Morse "C-O" Marine Oil Engines which furnish this efficient tug with dependable power





FAIRBANKS, MORSE & CO.
Manufacturers CHICAGO

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SPECIAL LONG STROKE ENGINES FOR SINGLE SCREW SHIPS OPERATING AT FROM 75-95 R.P.M.

THE WM. CRAMP & SONS S. & E. BLDG. CO.

PHILADELPHIA, PA., U. S. A.

BUILDERS OF COMPLETE MOTORSHIPS TO ONE STANDARD OF WORKMANSHIP AND ONE GUARANTEE FOR PERFORMANCE (Burmeister & Wain System)

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MS " CALIFORNIAN '



BUILDERS OF MARINE DIESEL ENGINES

COPENHAGEN, DENMARK

UP TO JUNE, 1923 PUT IN ACTUAL SERVICE 122

MOTORSHIPS WITH ENGINES
OF THE B & W TYPE
TOTALLING

1,469,052

TONS
DISPLACEMENT

ACTUAL FUEL OIL

OF

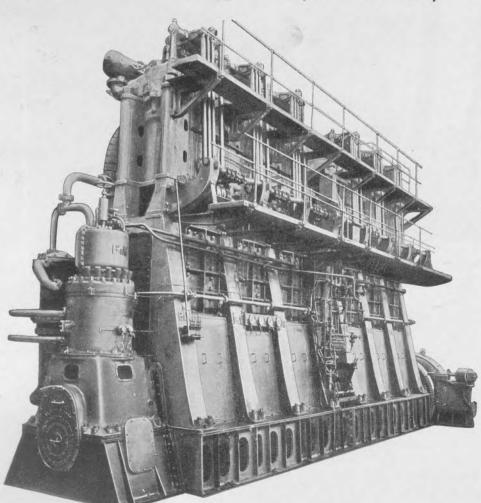
MAIN ENGINE

SHOWN

0.365 LBS.

PER

B. H. P. HOUR



S. B. ENGINE

OF

THE AMERICAN

MOTOR SHIP

"WILLIAM PENN"

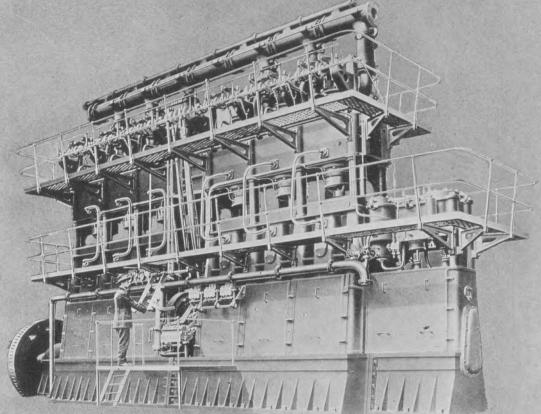
2250 I. H. P.

U. S. LICENSEE
THE WM. CRAMP & SONS CO.
PHILADELPHIA, PA., U. S. A.

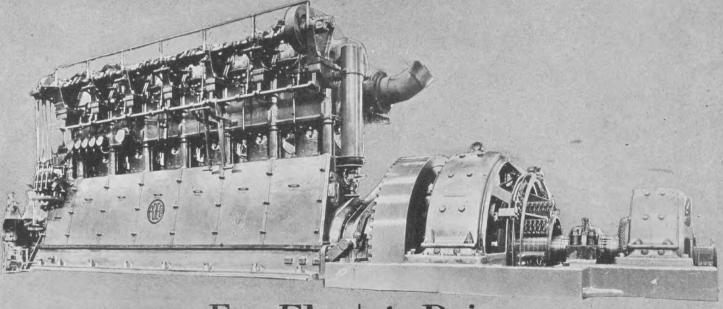
U.S REPRESENTATIVE FOR B & W H C. HALLINGS 27 WHITEHALL STREET, NEW YORK







For Direct Drive



For Electric Drive

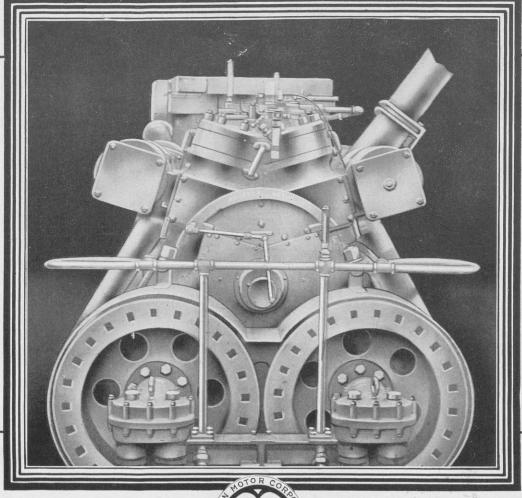
PACIFIC DIESEL ENGINE COMPANY

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KNUDSEN MOTOR





TWO CYCLE FULL DIESEL

100% scavenging with 10% to 30% super charge of air in the cylinder and very low fuel consumption. Weight 50 lbs. per H. P.

Built for Gear Reduction, Direct Drive, Electric Drive, also Stationary and Auxiliary Engines 50 to 4,350 H.P.

Manufactured by

KNUDSEN MOTOR CORPORATION 30 CHURCH ST., OF N.Y. NEW YORK CITY

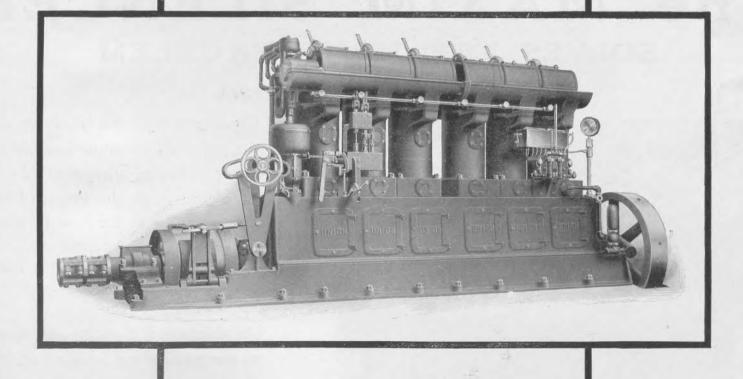
UNION DIESEL ENGINES

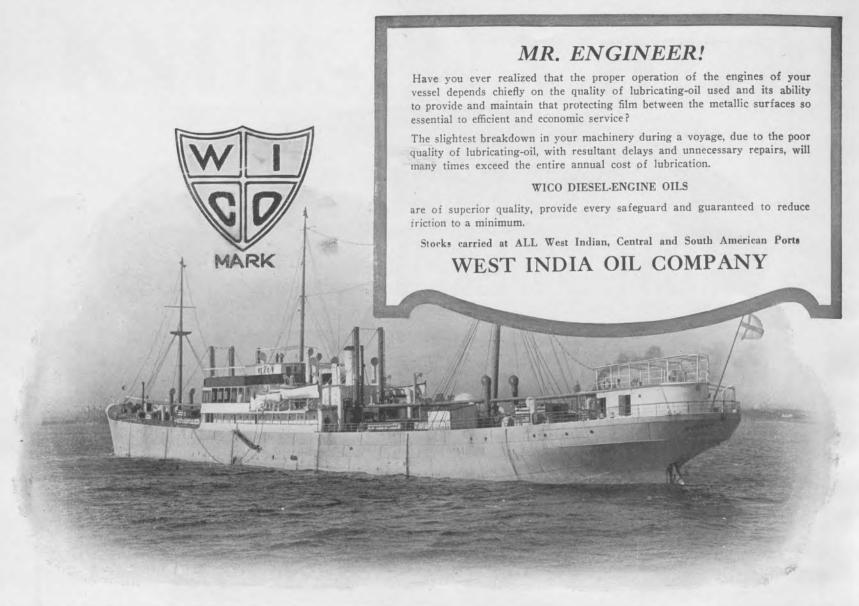
FOUR GYGLE MEGHANIGAL INJECTION

OVERHEAD CAMSHAFT CONSTRUCTION IS USED, WHICH MEANS LESS DIFFICULTY IN CAM SETTINGS, FEWER WEARING PARTS, AND MORE ACCURATE VALVE SETTINGS.

UNION DIESEL ENGINES ARE THE RESULT OF THIRTY-EIGHT YEARS OF SUCCESSFUL IN-TERNAL COMBUSTION ENGINE EXPERIENCE.

UNION GAS ENGINE COMPANY
OAKLAND, CALIFORNIA

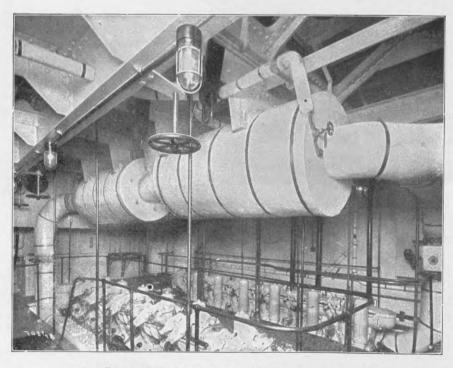




The MAXIM SILENCER

SOLVES THE NOISE PROBLEM

Over 1000 Installations to Prove It



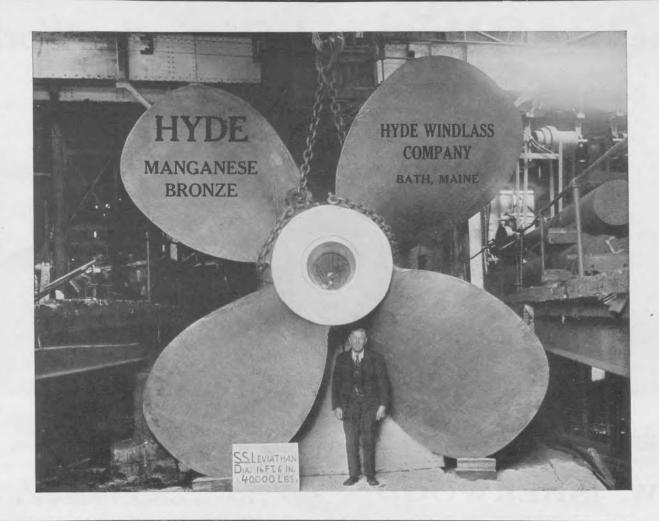
Installation of Maxim Silencer on Motor Barge, "Twin Ports."

The day has passed when we need put up with exhaust and suction noises. Maxim Silencers will practically eliminate the sound of both and not impede the flow of gas.

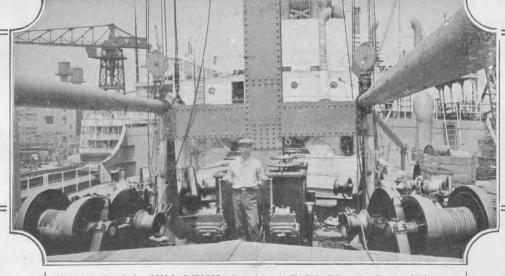
Made in all pipe sizes from 1 inch to 20 inches.

On shipboard they insure silence on the navigating bridge and high operating efficiency in the engine room.

THE MAXIM SILENCER CO. 107 Homestead Ave. Hartford, Conn.



A majority of the most modern motorships are equipped with A-E-CO MARINE AUXILIARIES



Afterdeck of the WM. PENN, showing A-E-CO Electric Cargo Winches

STE ERING GEARS—TELEMOTORS—WINDLASSES—WINCHES—TOWING MACHINES—CAPSTANS—GYPSEYS—CHANDLERY
"The Choice of the Old-Timers"
WRITE FOR DETAILS

AMERICAN ENGINEERING COMPANY

2413 ARAMINGO AVE., PHILADELPHIA, PA.

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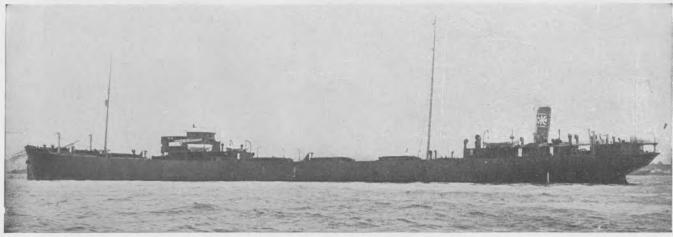
Cleveland

Victoria, B. C.

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The Largest Motor Tank Ship in the World

Isherwood System



M.S. "ZOPPOT"

Over 1400 vessels representing over 12,000,000 tons dead-weight-carrying-capacity, built, of which 660 are bulk-oil-carriers representing about 6,400,000 dead-weight-carrying-capacity tons; all built on Isherwood system.

J. W. ISHERWOOD -

17 BATTERY PLACE, NEW YORK, U. S. A.; or 4 LLOYDS AVENUE, LONDON, E. C. 3

The Manzel Force Feed Oiler

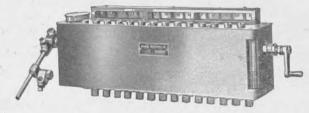
Accounts For Every Drop of Oil

The "Manzel" automatic sight feed method of lubrication is the common sense way to oil engine cylinders efficiently and makes every drop of oil do its full duty.

The "Manzel" Of measures oil to the cylinders just as it is needed, always in proportion to the engine's speed, never too much, never too little.

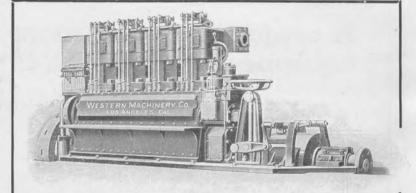
There is no guess work. You know at all times just how much oil is being supplied, for every drop passes through the sight feed in plain view.

Saves 30 to 60% on oil bills and renders service that you can count on, without attention. It never forgets and is always on the job.



Sizes for Every Type of Engine
Write for Catalog No. 37

Manzel Brothers Company 300-302 Babcock St., Buffalo, N. Y., U. S. A.



"Western" Diesel Engines

Stationary and Marine Types

A rigid comparison of operating and maintenance costs will prove conclusively the advisability of the replacement of less efficient power equipment with "Western"—the highest type of power unit in its simplest form.

"Western" Diesel Marine Engines 75—100—150 Horsepower Single and Multiple Cylinder Units

Western Machinery Company

907 N. Main St., Los Angeles, Calif. Branch: Rialto Bldg., San Francisco, Calif.

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OIL ENGINES



set a new standard of accessibility which adds greatly to convenience of operation and maintenance, and contributes largely to reduction in cost of upkeep.

The valves are conveniently located in quickly removable cages, and the cages have renewable bushings and seats. Pistons and rings are accessible from under without breaking of joints or adjustments. Four large handholes in each cylinder provide ample access to water jackets. Stanchions between crank case doors can be removed to make main shaft bearings and connecting rod bearings 100% get-at-able

This extra accessibility of the Lombard design is gained with no increase in engine room space; in fact less head room is needed since pistons are withdrawn and all adjustments and replacements are made within the limits of engine height.

THE LOMBARD GOVERNOR COMPANY

Established 1894
Diesel Engines and Water Power Governors 805 MAIN STREET, ASHLAND, MASS.

The Lombard Design Saves Weight and Headroom

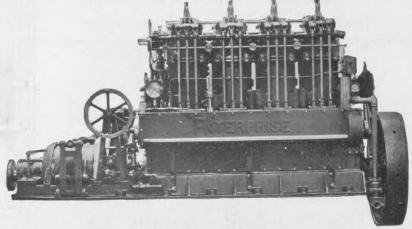


Enterprise Repeat Orders Mean Satisfied Customers

Slow-speed, heavy-duty type, massive construction, designed on true Diesel lines with over-size bearings and working parts to enable engine to stand excessive overload over rated horsepower. Starts instantly by compressed air (pressure required not to exceed 175 pounds) and load can be applied immediately. No priming, heating or electric equipment required. Compression, 350 pounds. Ignition by heat of compression only. Fuel injection by pressure only, no compressed air being required.

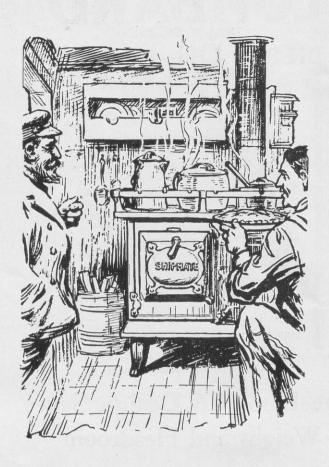
Fuel consumption is very low, as one gallon of crude oil will develop 19 to 22 horsepower.

Cost of operating this 165 h.p. Engine — 35 cents per hour



18th and Alabama





"How's that favorite pie of mine going to turn out this time, Cook? "

"Like Mother used to make, Cap'en, now that you've got this here Shipmate aboard."

In the hum-drum round of life on ship-board, meal-times are pleasant breaks in the monotony.

A good cook and a SHIPMATE make the right combination for shortening the day and the voyage.

SHIPMATES

are made only by

The Stamford Foundry Co.

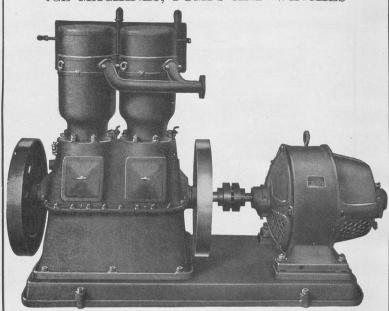
Established 1830

Stamford, Conn.

BULL DOG OIL ENGINES

for driving

ELECTRIC GENERATORS, AIR COMPRESSORS. ICE MACHINES, PUMPS AND WINCHES



8 K.W. Generator Set Operates on kerosene or fuel-oils No torch or electric ignition required

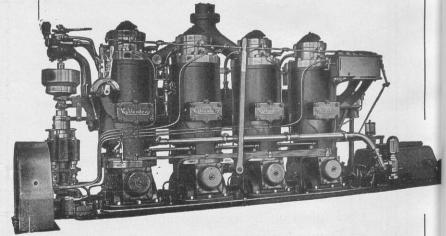
BATES AND EDMONDS MOTOR COMPANY

LANSING, MICHIGAN, U.S. A.

Engine builders since 1899



HEAVY DUTY MARINE OIL ENGINES



The "Kahlenberg" operates on .55 pound of crude oil per h.p. hour, and is remarkably smooth in action when running at any speed, with or without load.

It has positive governor control from no load to full load. Variable speed is instantly obtainable from just "turning over" to wide open. No water injection. 20 to 200 h.p.

Continuous EFFICIENCY Quaranteed

Other Distinctive Features—
Injection control
Air starting and reversing
Water cooled combustion chamber
May we send our latest catalog?

KAHLENBERG BROS. CO.

1707 12th St.

MANUFACTURERS Two Rivers, Wis., U. S. A.

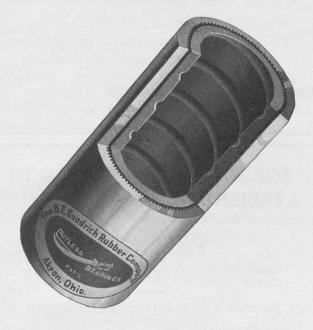
NOT a single failure

Widest use and severest tests have proved the superiority of the

CUTLESSBEARING

made by

Goodrich



A great improvement in stern tube bearings and outboard strut bearings for tugs, motor boats and launches.

Its tough Olivite Rubber surface reduces screw vibration, prevents scoring of bearing or shaft, is not injured by sandy, gritty water, gives much longer service. Investigate fully.

THE B. F. GOODRICH RUBBER COMPANY
Akron, Ohio



DIESEL

Repairs and Installations

Experienced engineers and modern equipment available in principal ports for the repair or installation of all types of Diesel engines.

Builders of all types of vessels including

M. S. Kennecott

M. Y. Cynthia

Installations of Diesel engines in

M. S. Fordonian

M. S. Boxer

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Agents for Sumner heavy oil engines.

TODD SHIPYARDS CORPORATION 25 Broadway, New York



Twelve shipways— Twenty-one floating docks— Two graving docks

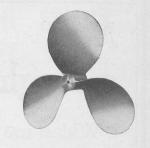
Robins Dry Dock & Repair, Co.
Erie Basin, Brooklyn
Tietjen & Lang Dry Dock Co.
Hoboken, N. J.
Tebo Yacht Basin Co.
Ft. 23rd Street, Brooklyn
Clinton Dry Docks, Inc.
Ft. Clinton Street, Brooklyn
Todd Dry Docks, Inc., Seattle, Wash,
Todd Dry Dock & Construction Corp.
Tacoma, Wash.
Todd Shipbuilding & Dry Dock Co., Inc.
Mobile, Ala.



Cap'n Allswell says: You can't make butter out o' sea water

If your propeller churns more'n it drives, you're losin' power, speed and comfort. Write for the Columbian Book and find out just what sort o'propeller is best for your engine and hull.

> The Columbian Bronze Corp., 218 N. Main St., Freeport, N. Y. New York City Sales: 44 Third Avenue





COLUMBIAN Bronze PROPELLERS

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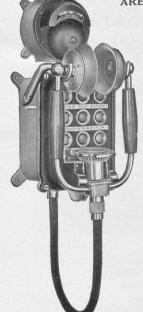
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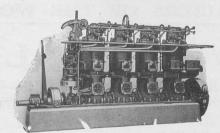
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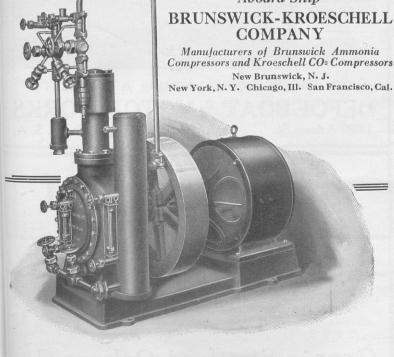
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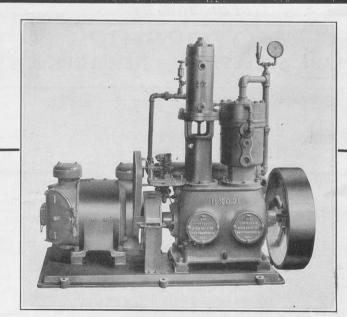


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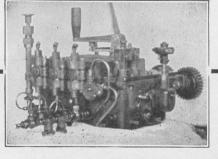
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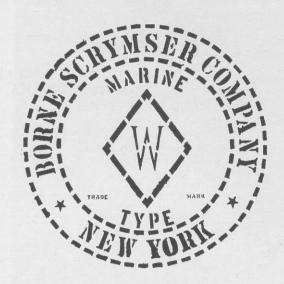
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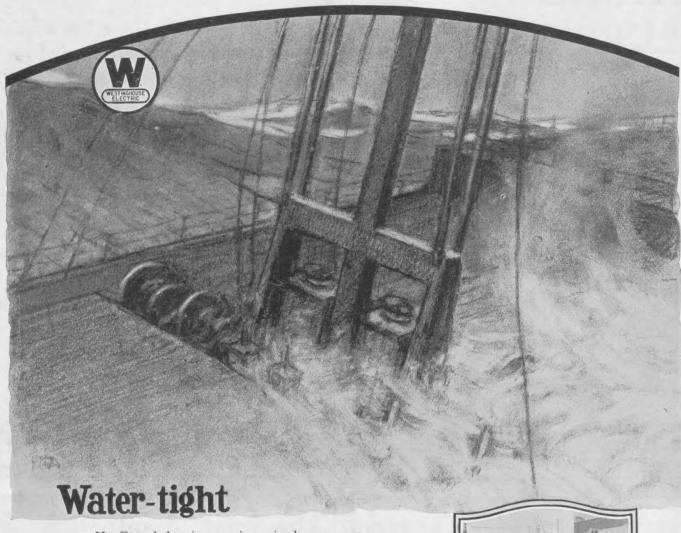
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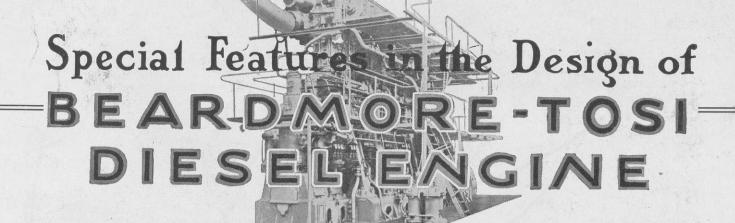
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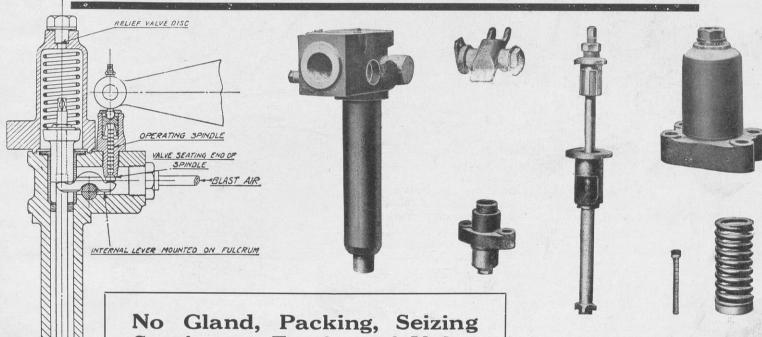


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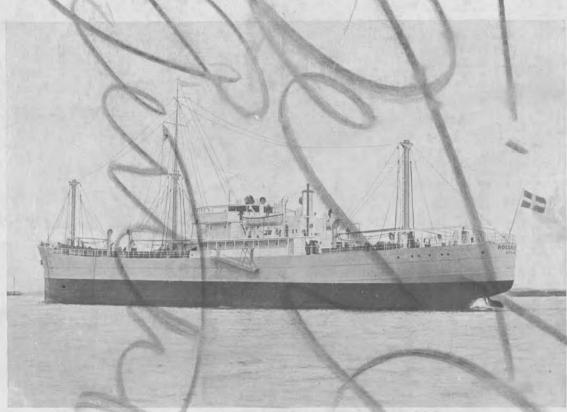
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